

Claims

- [c1] A method for IDMA signal transmission, comprising the steps of:
- (a) assigning a code to each user, where the said code can be the same or different for different users and of the same or different rates for different users, and
 - (b) encoding the source data sequence for each user using the encoder assigned to this user, and
 - (c) interleaving the said coded sequence so as to modify the order of said coded sequence to produce the interleaved sequence, wherein interleaved data sequences from different users are distinguished by using different interleaving schemes, and
 - (d) assigning a pre-calculated power level to each user, where the said power level can be the same or different for different users, but these levels are different at least for some users, and
 - (e) transmitting the interleaved sequence for each user using the assigned power level for this user
- [c2] A method as claimed in claim 1 wherein the codes may contain a hybrid form of narrow sense codes and repeat codes and spreading operations.

